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WATER QUALITY DATA SETS CONSIDERED FOR 2002 305(b) ASSESSMENT updated 4/25/02				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
DEQ Chesapeake Bay Program				
Chesapeake Bay Ambient Program Chemical Data	ALUS – DO, pH, Chl	DEQ-CBP Rick Hoffman 804-698-4334	Documented QA/QC Plan Rick Hoffman, Cindy Johnston	Appx 62 mainstem and tributary stations monitored monthly
Chesapeake Bay Biological Monitoring Data	ALUS – Benthic B-IBI	DEQ-CBP Rick Hoffman 804-698-4334	Documented QA/QC Plan Rick Hoffman	Appx 21 mainstem and tributary fixed stations, 100 random stations yearly
Chesapeake Bay Toxics Monitoring (Middle Tidal James River & Upper Tidal York R.)	ALUS – Sediment Organics, Sediment Metals, Toxicity Tests	DEQ-CBP Mark Richards 804-698-4392	Documented QA/QC Plan Mark Richards (Beth McGee Fish & Wildlife Service)	Five stations on each River; not part of annual monitoring program.
Chesapeake Bay Toxics Monitoring (Middle Tidal Rappahannock River)	ALUS – Sediment Organics, H2O/Sediment Metals, H2O/Sediment Toxicity Tests	DEQ-CBP Mark Richards 804-698-4392	Documented QA/QC Plan Mark Richards (Lenwood Hall, Univ. MD)	Ten stations; not part of annual monitoring program.
EPA MAIA Project Toxics	ALUS – Sediment Organics, , H2O/Sediment Metals, Sediment Toxicity Test	DEQ-CBP Mark Richards 804-698-4392	Documented QA/QC Plan Mark Richards	Appx 100 mainstem and tributary stations
EPA MAIA Project Conventional & Biological	ALUS – Benthic B-IBI	DEQ-CBP Rick Hoffman 804-698-4334	Documented QA/QC Plan Rick Hoffman	Appx 100 mainstem and tributary stations
DEQ Ambient Water Quality Monitoring Program				
Ambient Watershed Monitoring Program – Water column	ALUS – DO, pH, T, SWIM – FC	DEQ-WQMA Roger Stewart 804 698-4449	Documented QA/QC Plan Gary Du 804 698-4189 Some data from approximately 150 stations not assessed because of QA concerns.	Approximately 1400 stations monitored monthly or quarterly for entire 305(b) window.

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Ambient Watershed Monitoring Program – Sediment Sampling, Water Column Toxics, Nutrients	ALUS – Sediment Organics, Sediment Metals, Phosphorus, Chl a Water Column Organics & Metals	DEQ-WQMA Roger Stewart 804 698-4449	Documented QA/QC Plan Gary Du 804 698-4189	Approximately 1400 stations monitored once a year for at least part of the 305(b) window.
DEQ Water Quality Standards Program				
Biological Monitoring Program	ALUS – Benthic (bottom dwelling) macrophytes	DEQ-WQS Jean Gregory 804-698-4113	Protocols and QA/QC Plan Alex Barron 804 689-4119	Approximately 200 stations sampled twice a year (spring & fall) by Regional Biologists
Biological Monitoring Program	ALUS – DO, pH, T	DEQ-WQS Jean Gregory 804-698-4113		Ambient field parameters measured by regional biologists during biological monitoring.
Statewide Fish Tissue Program	FISH – Fish Tissue	DEQ-WQS Jean Gregory 804-698-4113	Protocols and QA/QC Plan Alex Barron 804 689-4119	Approximately 40-80 selected stations sampled each year. Rotation around State every 3-5 years.
Statewide Sediment Contamination Program	ALUS – Sediment Organics, Sediment Metals	DEQ-WQS Jean Gregory 804-698-4113	Protocols and QA/QC Plan Alex Barron 804 689-4119	Approximately 40-80 selected stations sampled each year. Rotation around State every 3-5 years.
Statewide Lake Monitoring	ALUS – DO, pH, T Sediment Organics, Sediment Metals SWIM – FC Recreation – nutrients,chl	DEQ-WQS Jean Gregory 804-698-4113	Follow ambient watershed QA/QC	Approx. 100 significant lakes Regions sample priority ranked lakes 3 seasons for one year out of 5 on rotation
James River Monitoring of Fish Tissue for Kepone	ALUS – Kepone	DEQ-WQS Alex Barron	Protocols for fish sampling Kepone analysis verified by VIMS Alex Barron 804 698-4119	Four stations in James River sampled every year until 2000; every other year thereafter.

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DEQ Special Studies				
Hunting Camp Creek-1999	ALUS-TSS, field parms SWIM-fecal coliform	DEQ-SWRO Fred Kaurish 276-676-4840	DEQ Ambient Program protocols	Twelve stations in mainstem and tributaries-single sweep.
Lick Creek-1999	ALUS-TSS, field parms SWIM-fecal coliform	DEQ-SWRO Fred Kaurish 276-676-4840	DEQ Ambient Program protocols	Nine stations in mainstem and tributaries-single sweep after STP on line.
Lick Creek-1997	ALUS-TSS, field parms SWIM-fecal coliform	DEQ-SWRO Fred Kaurish 276-676-4840	DEQ Ambient Program protocols	Nine stations in mainstem and tributaries-single sweep during construction of STP.
Garden Creek-Dissolved metals-1998	ALUS-metals	DEQ-SWRO Fred Kaurish 276-676-4840	DEQ Ambient Program protocols	Twenty stations in mainstem and tributaries-single sweep.
Guest River-1997	Comparison of data between historic site and new USGS gauge.	DEQ-SWRO Fred Kaurish 276-676-4840	DEQ Ambient Program protocols	Six months of samples-no significant difference.
Ely, Puckett, Straight and Stone Creeks-Dissolved metals-2000	ALUS-field parms, metals	DEQ-SWRO Fred Kaurish 276-676-4840	DEQ Ambient Program protocols	Fourteen stations-single sweep.
Straight Creek-1999	ALUS-TSS, field parms SWIM-fecal coliform	DEQ-SWRO Fred Kaurish 276-676-4840	DEQ Ambient Program protocols	Thirteen stations in mainstem and tributaries-single sweep.
TMDL Sweep-Three Creeks-Dec 1999	ALUS-field parms SWIM-fecal coliform	DEQ-SWRO Fred Kaurish 276-676-4840	DEQ Ambient Program protocols	Thirty-four stations-single sweep.
Tidal Embayment Study	ALUS – DO, pH, chlorophyll a, ammonia	DEQ-PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	Sampled once
James River CSO Study	ALUS –DO, pH, T SWIM - FC	DEQ-PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	30 stations twice a month May through October 1994- 2001
Lead Acid Battery Study	ALUS – Metals in sediment	DEQ-PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	10 stations near Rocketts Landing sampled once in Fall/Winter 2000-2001
Pfiesteria Monitoring Study	ALUS – DO, pH, T,	DEQ-PRO	Followed ambient	20 cohort stations and 22

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	ammonia, chlorophyll a, phosphorus, algae	Mark Alling (804) 527-5021	watershed QA/QC procedures	water quality stations sampled May-October 1998-2001
Bailey Creek PCB/PCT Study	ALUS - Organics in sediment	DEQ-PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	44 stations sampled once during October 1997-September 1995
James River TBT Study	ALUS – TBT in sediment, water column	DEQ-PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	17 stations sampled once during Summer/Fall 2000
Potomac Dinoflagellate Bloom Study	ALUS – DO, pH, T, algae	DEQ-PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	Data set not used. Transient event data considered Level 1 (low confidence) per EPA's 1997 assessment guidance Section 3.2.
Pollution Response Program (PreP) Data	Various	DEQ-PRO Mark Alling (804) 527.5021	Various	Data set not used. Transient event data considered Level 1 (low confidence) per EPA's 1997 assessment guidance Section 3.2.
Livestock Farms Study	ALUS – DO, pH, T, Phos, Ammonia SWIM – FC	DEQ-PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	78 stations total during course of study bimonthly monitoring
Blackberry Creek (Prep to SS)	Swimming, - FC ALUS - DO, Temp, pH	DEQ-WCRO Larry Willis	Follow ambient QA/QC Plan	21 stations
Blackwater River (TMDL Support)	ALUS - DO, Temp, pH, RBP II Surveys	DEQ-WCRO Larry Willis	Follow ambient QA/QC Plan	7 Stations
Big Otter River (TMDL Support)	Swimming - FC ALUS - DO, Temp, pH Flow	DEQ-WCRO, WQMA Roger Stewart / TMDL Coordinator	Follow ambient QA/QC Plan	17 Stations
Dodd Creek (TMDL Support)	Swimming - FC ALUS - DO, Temp, pH, TP, NH3-N, Flow	DEQ-WCRO Larry Willis	Follow ambient QA/QC Plan	11 stations
Jackson River Special Study (1998)	ALUS - DO, Temp, RPB II Surveys	DEQ-WCRO Larry Willis	Follow ambient QA/QC Plan	17 stations
Mill Creek (TMDL Support)	Swimming - FC ALUS – DO, Temp, pH,	DEQ-WCRO Larry Willis	Follow ambient QA/QC Plan	8 stations

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	TP, NH3-N Flow			
Nonpoint Source Priority Special Study (SS 975101)	Swimming - FC ALUS – DO, Temp, pH, TP, NH3-N Flow	DEQ-WCRO M. J. Scanlan	Documented QA/QC Plan Roger Stewart	29 Stations
Staunton River Low Flow Study	Swimming – FC ALUS – DO, Temp, pH, nutrients, solids, fish	DEQ-WCRO, WQMA Jean Gregory	Biological Project Plan Larry Willis	6 Benthic (5 Chemical)
Altavista & Hurt PCB Soil and Sediment Study (2000)	ALUS – Sediment PCBs	DEQ – WCRO M. J. Scanlan	Documented QA/QC Plan Gary Du	30 soil samples (Includes 5 sediment in Lynch Cr.)
Elizabeth River TBT Monitoring	ALUS – Tributyltin	DEQ Roger Everton 757-518-2150	Protocols and QA/QC Plan Roger Everton 757-518-2150	Fourteen stations in Elizabeth River sampled bi-monthly.
Regional Special Study Water Column Monitoring Program for the Northern Virginia Regional Office	ALUS – DO, pH, T, nutrients SWIM – FC	DEQ, NVRO Charles Williamson 703-583-3876	Documented QA/QC Plan Gary Du 804 698-4189	23 stations were sampled monthly between July 1999 and August 2000 to support TMDL development on selected 303(d) listed stream segments.
Other State Programs				
Federal Programs				
Ambient Chemical Data from Virginia's surface waters.	USGS parameters assessed for <u>Aquatic Life Use</u> <ul style="list-style-type: none"> Temp, DO, pH, water column metals & phosphorus USGS parameter assessed for <u>Swimming Use</u> <ul style="list-style-type: none"> Fecal coliform 	U.S. Department of the Interior, Geological Survey, Water Resources Division Virginia District, Ward W. Staubitz, (804) 261-2639	USGS data accepted with no additional QA review required.	1429 stations, 482 parameters, 101236 observations.
		TVA	Only summary of protocols for level 1 and level III assessments are	

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			available. No detailed SOP or QA/QC plan or data are available. Alex Barron 804-698-4119 No data accepted.	
		US Forestry Service	QA/QC review by DEQ Gary Du 804 698-4189 The Chloride and Sulfate analyses were run outside the acceptable holding times as stipulated in the approved test methods from 40 CFR 136. The pH data was not collected within the holding time requirements of 40 CFR 136 and therefore cannot be used by our Department. pH data not accepted.	Reference Alan Pollock letter of 30 January, 2002 to Rick Webb. The other water quality parameter data for Sodium, Calcium, Magnesium, Potassium, and Nitrate were not used by our assessment staff because the state has no water quality standards for comparison. 14 sites 2061 measurements over the five year assessment window.
		National Park Service	QA/QC review by DEQ Gary Du 804 698-4189 Upon review of the sample collection protocols, holding times, and analytical methods for quality assurance/quality control purposes, we have determined that the Chloride data can be used directly for assessment of water quality relative to aquatic life and drinking water designated uses and the drinking water use for Sulfate. The pH data submitted was not collected within the holding time requirements of 40 CFR 136 and therefore, cannot be used	Reference Alan Pollock letter of 30 January, 2002 to Dawn Kirk. The other water quality parameter data for Sodium, Calcium, Magnesium, Potassium, and Nitrate were not used directly by our assessment staff. The state does not have ambient water quality standards for comparison. Currently, the state has a water quality standard for Nitrate relative to human health in public water supplies only. 801 sites 4505 measurements over the five year assessment window.

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			directly by the Department Chloride, sulfate & pH data not accepted.	
Citizen Monitoring Programs				
Ambient Chemical Data Set collected for general water quality monitoring	ALUS – DO, pH, T Chlorophyll a, secchi, salinity, nitrate, nitrite, ammonia, orthophosphate, TSS	Alliance for the Chesapeake Bay Stacey Moulds 804-775-0951	QA/QC review by DEQ Gary Du 804-698-4189 pH and chlorophyll a data not accepted Reference 10/4/01 letter to Stacey Moulds	Approximately 130 stations monitored weekly for entire data window.
Citizen biological monitoring program using ANS protocols	ALUS – Benthic macroinvertebrates and pH	Audubon Naturalist Society Cliff Fairweather 703-803-8400	QA/QC review of pH by DEQ Gary Du 804-698-4189 pH data not accepted Letter to Cliff Fairweather 10/15/01.	Approximately 21 stations monitored 3 times per year for entire data window.
Ambient Chemical Data Set collected for general water quality monitoring	ALUS – DO, pH, T SWIM – FC Nitrate, phosphate, turbidity	Clean Virginia Waterways Katie Register (434) 392-2602	QA/QC review by DEQ Gary Du 804-698-4189 pH and fecal coliform data not accepted Reference 10/4/01 letter to Katie Register	Approximately 41 stations monitored monthly for 15 months (10/99-12/00).
Ambient Chemical Data Set collected for general water quality monitoring	ALUS – DO, pH, T SWIM – FC Nitrate, phosphorus, orthophosphate, TSS	Environmentally Concerned Citizens Organization (ECCO) Sara Bell: 540-279-3068 Gary Robinson: 540- 839-5706	Protocol review (no QA Plan) by DEQ Gary Du 804-698-4189 No data accepted Reference 10/4/01 letter to Sara Bell	4 stations monitored quarterly for one year (1999-2000).
Ambient Chemical Data Set collected for general water	ALUS – DO, pH, T Nitrate, phosphate,	Friends of the North Fork of the Shenandoah River	QA/QC review (same as Friends of Shenandoah)	9 stations monitored monthly for 8 months (9/99-4/00).

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quality monitoring	ammonia, turbidity	Pat Maier 540-459-8550	by DEQ Gary Du 804-698-4189 No data accepted Reference 10/4/01 letter to Pat Maier	
Ambient Chemical Data Set collected for general water quality monitoring	ALUS – DO, pH, T Nitrate, phosphate, ammonia, turbidity	Friends of the Shenandoah River Karen Andersen 540-665-1286	QA/QC review by DEQ Gary Du 804-698-4189 No data accepted Reference 10/4/01 letter to Karen Andersen	130 stations monitored biweekly for entire data window.
Fecal Coliform Data Set collected for general water quality monitoring	SWIM – FC	Izaak Walton League – Staunton/Auguta Chapter Paul Bugas 540-248-9360	Protocol review (no QA Plan) by DEQ Gary Du 804-698-4189 Fecal coliform data not accepted Reference 10/4/01 letter to Paul Bugas	6 samples collected at 31 stations for 10 month time period.
Ambient Chemical Data Set collected for general water quality monitoring	ALUS – DO, pH, T SWIM – FC Nitrate, phosphate, ammonia, chlorine, sulfate, sodium, calcium, potassium, magnesium, conductivity	Maury River Alliance Dr. David Harbor 540-463-8571	Protocol review (no QA Plan) by DEQ Gary Du 804-698-4189 No data accepted Reference 10/4/01 letter to Dr. Harbor	18 stations monitored biweekly for 5 months.
Ambient Chemical Data Set collected for general water quality monitoring	ALUS – DO, pH, T SWIM – FC Nitrate, phosphate	North Fork Goose Creek Watershed Committee Kate Marincic 703-777-2075 ext. 106	QA/QC review by DEQ Gary Du 804-698-4189 No data accepted Reference 10/4/01 letter to Kate Marincic	8 sites monitored quarterly 1996-1998 and monthly in 2000. 1996 and 1997 data not submitted in electronic format.
Citizen biological monitoring program using ANS protocols	ALUS – Benthic macroinvertebrates and pH	Loudoun Wildlife Conservancy Fred Fox	QA/QC review of pH by DEQ Gary Du	Approximately 13 stations monitored 3 times per year for 3 years (1997-2000).

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		540-554-4844	804-698-4189 pH data not accepted Reference 10/15/001 letter to Fred Fox.	
Ambient Chemical Data Set collected for general water quality monitoring	SWIM – FC	Page County Water Quality Advisory Committee Dr. Tom Benzing 540-568-2794	Protocol review (no QA Plan) by DEQ Gary Du 804-698-4189 Fecal coliform data not accepted Reference 10/4/01 letter to Dr. Tom Benzing	31 stations monitored monthly for just over 2 years (9/98-12/00).
Ambient Chemical Data Set collected for general water quality monitoring	ALUS – DO SWIM – FC	Piedmont Region TMDL Initiative James Beckley 804-983-4757	QA/QC review by DEQ Gary Du 804-698-4189 Fecal coliform data and DO data collected with malfunctioning meter not accepted Reference 10/4/01 letter to James Beckley	Approximately 25 stations monitored biweekly-monthly for just over a year (9/99-12/00).
Citizen biological monitoring program using ANS protocols	ALUS – Benthic macroinvertebrates	Virginia Save Our Streams Jay Gilliam 540-377-6179	New QA/QC plan for biological monitoring given to Alex Barron 804-698-4119	Approximately 150 stations monitored quarterly for entire data window.
Ambient Chemical Data Set collected for general water quality monitoring	ALUS – pH, T TSS, TP, TN	York Watershed Council/ Mattaponi and Pamunkey Rivers Association Billy Mills 04-769-0841	QA/QC review by DEQ Gary Du 804-698-4189 pH data not accepted Reference 10/4/01 letter to Billy Mills	23 stations monitored quarterly for two years (9/97-6/99).
Ambient Chemical Data Set collected for general water quality monitoring	ALUS – DO, pH, T SWIM – FC Nitrate, phosphate, turbidity	Hoffler Creek Wildlife Foundation Ashley Orgain 757-398-9151	Protocol review (no QA Plan) by DEQ Gary Du 804-698-4189 No data accepted Reference 10/4/01 letter to	10 stations monitored monthly for 16 months (9/99-12/00).

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Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
			Ashley Orgain	
Ambient Chemical Data Set collected for general water quality monitoring	ALUS – DO, pH, T Total phosphorus, turbidity, conductivity, alkalinity, ammonia	Pedlar River Institute Dr. Priscilla Gannicott 804-544-8291	Protocol review (no QA Plan) by DEQ Gary Du 804-698-4189 No data accepted Reference 10/4/01 letter to Dr. Gannicott	3 samples collected at 3 stations (10/99-1/00).
Ambient Chemical Data Set collected for general water quality monitoring	ALUS – DO, pH, T Chlorophyll a, secchi, salinity, nitrate, nitrite, ammonia, orthophosphate, TSS	Tidewater RC&D & Coan River Watershed Project Hoyt Wheeland hoyt@crosslink.net	No data accepted Data submitted past deadline for citizen data submittal. No QA Plan/ protocols submitted. Reference 10/4/01 letter to Hoyt Wheeland	8 stations monitored weekly for one year (11/99-10/00),
Local Government				
Chemical Data Set collected for stormwater discharge monitoring	SWIM – FC Nitrate, nitrite, TKN, total phosphorus, TSS	Culpeper Soil and Water Conservation District (SWCD) Greg Wichelns 540-825-8591	Protocol review by DEQ Gary Du 804-698-4189 No data accepted – stormwater discharge data Reference 10/4/01 letter to Greg Wichelns	4 samples collected at 3 stations (6/00-11/00).
Ambient Chemical Data Set collected for general water quality monitoring	ALUS – DO, pH, T SWIM – FC Nitrate, nitrite, total phosphorus, TKN, solids	John Marshall SWCD Catherine Waterhouse 540-347-3120	QA/QC review by DEQ Gary Du 804-698-4189 pH data not accepted Reference 10/4/01 letter to Catherine Waterhouse	4 stations monitored monthly for 10 months.
Winterpock Creek Water Quality Sampling Program	ALUS – DO, pH., T, NH3-N, Phosphorus	Richmond Regional PDC John Fisher (804) 358-3684	Documented QA/QC Plan	11 stations monitored weekly for one year (8/1997 – 7/1998).
Upham Brook Water Quality Sampling Program	ALUS – DO, pH, T SWIM – FC	Richmond Regional PDC John Fisher	Documented QA/QC Plan	12 stations monitored weekly (8/1997 - 6/1998)

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		(804) 358-3684		
Tuckahoe Creek Water Quality Sampling Program	ALUS – DO, pH, T, NH3-N, Phosphorus SWIM – FC	Richmond Regional PDC John Fisher (804) 358-3684	Documented QA/QC Plan	4 stations sampled once per week from March 1999 through mid-September 1999
Hopewell Estuary Region Monitoring and Assessment Project	ALUS – DO, pH, T, NH3-N, Phosphorus, ChlA, benthics SWIM - FC	HHWTF/Malcolm Pirnie/Crater PDC Clifton Bell (757) 873-8700	Documented QA/QC Plan	March -September 1998 & 1999
Ambient Chemical Data Set collected for general water quality monitoring	ALUS – DO, pH, T SWIM – FC Nitrate, phosphate	Loudoun SWCD Pat McIlvaine 703-777-2075	QA/QC review by DEQ Gary Du 804-698-4189 No data accepted Reference 10/4/01 letter to Pat McIlvaine	13 sites monitored for almost 2 years (3/99-12-00).
Ambient Chemical Data Set collected for general water quality monitoring	SWIM – FC	Upper Levisa River Restoration Project (Lonesome Pine SWCD/TVA partnership) Derrick Potter 540-926-6621	QA/QC review by DEQ Gary Du 804-698-4189	15 stations monitored weekly/monthly for 2 month time period.
Academic				
Ambient Chemical Data Set collected for general water quality monitoring	ALUS – DO, pH, T Total phosphorus, nitrate,	Ferrum College Dr. Carolyn Thomas: 540-365-4368 Dr. David Johnson: 540-365-2602	QA/QC review by DEQ Gary Du 804-698-4189	6 samples collected between Memorial Day and Labor Day for approximately 131 stations each year for entire data window.
Water column chemical data for the Occoquan Reservoir	ALUS – DO, pH, T, Phosphorus, soluble metals, chlorophyll a	Occoquan watershed Monitoring Lab – Thomas J. Grizzard, P.E., Ph. D.	QA/QC review by DEQ Gary Du, (804) 698-4189 Chlorophyll a and soluble metals data not accepted Ref. July 16, 2002 letter to Thomas Grizzard	Data collected from 4 stations in the reservoir throughout the assessment period.
Other				

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